

Contents

Volume 61 (1992)

No. 1

SPECIAL ISSUE

- M. Caffrey and J. Hogan (Columbus, OH), *LIPIDAT: A database of lipid phase transition temperatures and enthalpy changes. DMPC data subset analysis* 1

No. 2

- J.H. Pak, X. Han and R.W. Gross (St. Louis, MO), *Differential molecular dynamics and transmembrane fluidity gradients in canine myocardial sarcolemma and sarcoplasmic reticulum* 111
- L. Landi, L. Cabrini, D. Fiorentini, C. Stefanelli and G.F. Pedulli (Bologna, Italy), *The antioxidant activity of ubiquinol-3 in homogeneous solution and in liposomes* 121
- C.T. Choma and P.T.T. Wong (Ottawa, Canada), *The structure of anhydrous and hydrated dimyristoyl-phosphatidyl glycerol: a pressure tuning infrared spectroscopic study* 131
- M.S.F. Lie Ken Jie and O. Bakare (Hong Kong), *¹H- and ¹³C-NMR studies on sulfinyl and sulfonyl derivatives of positional isomers of methyl thialaurate* 139
- M.F. Omodeo-Sale, P. Palestini and M. Masserini (Milan, Italy), *Thermotropic behavior of fatty acid ethyl esters in phospholipid liposomes* 149
- F. Camps, S. Hospital, G. Rosell, A. Delgado and A. Guerrero (Barcelona, Spain), *Synthesis of biosynthetic inhibitors of the sex pheromone of Spodoptera littoralis. Part II: acetylenic and cyclopropane fatty acids* 157
- D.R. Kodali and R.I. Duclos, Jr. (Boston, MA), *Debenzylation and detritylation by bromodimethylborane: synthesis of mono-acid or mixed-acid 1,2- or 2,3-diacyl-sn-glycerols* 169
- G.P. Jones, N.L.A. Misso and L.G. Paleg (Glen Osmond, Australia), *Indole-3-acetic acid-mediated transport of Mn²⁺ and other ions across phosphatidylinositol vesicular membranes as determined by ³¹P-NMR* 175
- J. Ortiz, F. Rosell, M. Mora and M. Africa de Madariaga (Barcelona, Spain), *Cation-induced aggregation and fusion of N-acyl-N-methylphosphatidylethanolamine vesicles* 185
- D. Meusel, N. Weber and K.D. Mukherjee (Berlin and Münster, F.R.G.), *Stereoselectivity of lipases: esterification reactions of octadecylglycerol* 193

Short Communication

- H.-P. Deigner and B. Fyrnys (Heidelberg, Germany), *Rapid synthesis of 2-desoxy-2-amino-3-phosphocholine-glycerinic-acid-alkylester, 1-alkyl-1-desoxy- and 1-O-alkyl-2-desoxy-2-amino-sn-glycero-3-phosphocholines, -3-phospho-N,N'-dimethylethanolamine and -3-phospho-Fmoc-serine-methylester* 199

No. 3

- Y.-S. Lee and D.F. O'Brien (Tucson, AZ), *Chain substituted polymerizable ether lipids: synthesis of sorbyl and diacetylenic ether glycerophosphocholine* 209
- V.F. Antonov, E.V. Shevchenko, E.Yu. Smirnova, E.V. Yakovenko and A.V. Frolov (Moscow, Russia), *Stable cupola-shaped bilayer lipid membranes with mobile Plateau-Gibbs border: expansion-shrinkage of membrane due to thermal transitions* 219

U.J. Ries, E.A.M. Fleer and H. Eibl (Göttingen, Germany), <i>Synthesis of alkylphosphonates, a new class of antineoplastic agents</i>	225
S. Swaminathan, F.D. Pinkerton, W.K. Wilson and G.J. Schroepfer, Jr. (Houston, TX), <i>Inhibitors of sterol synthesis. Chemical synthesis and spectral properties of (25R)-5α-cholest-8(14)-ene-3β,15β,26-triol, a potential metabolite of 3β-hydroxy-5α-cholest-8(14)-en-15-one and its effects on 3-hydroxy-3-methylglutaryl-coenzyme A reductase in CHO-K1 cells</i>	235
M.S.F. Lie Ken Jie and C.F. Wong (Hong Kong), <i>Synthesis and NMR properties of positional isomers of methyl allenic fatty esters</i>	243
P. Neyroz, L. Franzoni, A. Spisni, L. Masotti and L. Brand (Parma and Bologna, Italy; Baltimore, MD), <i>The chemical synthesis of N-[1-(2-naphthol)]-phosphatidylethanolamine, a fluorescent phospholipid for excited-state proton transfer studies</i>	255
G. Klose, B. König and F. Paltauf (Leipzig, Germany and Graz, Austria), <i>Sorption isotherms and swelling of POPC in H₂O and ²H₂O</i>	265
B. Dayal, G. Salen, J. Padia, S. Shefer, G.S. Tint, T.H. Williams, V. Toome and G. Sasso (Newark and Nutley, NJ), <i>Stereoselective synthesis of (24R and 24S) 5β-cholestane-3α,7α,12α,24,25-pentols and (25R and 25S) 5β-cholestane 3α,7α,12α,25,26-pentols using a modified osmium-catalyzed Sharpless asymmetric dihydroxylation process</i>	271
N. Hiramatsu, T. Inoue, T. Sato, M. Suzuki and K. Sato (Fukuoka, Amagasaki and Higashi-Hiroshima, Japan) <i>Pressure effect on transformation of cis-unsaturated fatty acid polymorphs. 3. Erucic acid (cis-ω9-docosenoic acid) and asclepic acid (cis-ω7-octadecenoic acid)</i>	283
Subject Index — Volume 61	293
Author Index — Volume 61	297
Contents — Volume 61	299

